

Charles H Rixey, MA

The Myth of the Blind Watchmaker

Dr. Fauci's response to the publication of *Pradhan et al* on 1/31/2020 – in the form of scientific censorship – had massive implications for our response to the COVID-19 pandemic, and shows that from the start, he believed it came from a lab.

Linked Topical Bibliography

Research into the HIV connections

- 1/30/2020 [Uncanny similarity of unique inserts in the 2019-nCoV spike protein to HIV-1 gp120 and Gag](#)
- 3/23/2020 [WUHAN COVID-19 SYNTHETIC ORIGINS AND EVOLUTION](#)
- 4/25/2020 [Root cause of COVID-19? Biotechnology's dirty secret: Contamination](#)
- 4/25/2020 [COVID-19, SARS and Bats Coronaviruses Genomes Unexpected Exogenous RNA Sequences](#)
- 5/15/2020 [Guoke Faji 2019/236 and the SARS-CoV-2 Outbreak](#)
- 6/2/2020 [Biovacc-19: A candidate vaccine.....](#)
- 7/2/2020 [The evidence which suggests that this is no naturally evolved virus](#)
- 8/2/2020 [HIV man-manipulated coronavirus genome evolution trends](#)
- 8/5/2020 [Anticovidian v.2 COVID-19: Hypothesis of the Lab Origin vs Zoonotic Event which can also be of a Lab Origin](#)
- 7/1/2021 [Dr. Richard Fleming discusses the HIV inserts](#)
- 7/15/2021 [BASES2021 SARS CoVd2 Gain of Function Research Violations of Law](#)
- 9/20/2021 [PREEMPT - DRASTIC'S Analysis of the DEFUSE Rejection Letter](#)
- 9/20/2021 [PREEMPT - DRASTIC's Analysis of the PREEMPT/DEFUSE Proposal](#)
- 10/4/2021 [Simon Wain-Hobson's analysis of the DEFUSE proposal](#)
- 10/4/2021 [Simon Wain-Hobson's annotated version of the DEFUSE proposal](#)
- 12/17/2021 [QTQTN motif upstream of the furin-cleavage site plays key role in SARS-CoV-2 infection and pathogenesis](#)
- 12/28/2021 [How to BLAST your way to the truth about the origins of COVID-19](#)
- 2/21/2022 [MSH3 Homology and Potential Recombination Link to SARS-CoV-2 Furin Cleavage Site](#)
- 4/10/2022 [Absolute proof: The Gp-120 sequences prove beyond all doubt that "COVID-19" was man-made](#)

Censorship & narrative construction

- 1/21/2020 [An emerging CoV causing pneu. outbreak in Wuhan, China: calling for dev. therapeutic & prophylactic strategies](#)
- 1/21/2020 [A furin cleavage site was discovered in the spike protein of the 2019 nCoV](#)
- 1/23/2020 [Complete genome characterisation of a novel CoV assoc. with severe human respiratory disease in Wuhan, China](#)
- 1/23/2020 [Discovery of a novel CoV associated with the recent pneumonia outbreak in humans and its potential bat origin](#)
- 1/30/2020 [Genomic characterisation and epidemiology of 2019-nCoV: implications for virus origins and receptor binding](#)
- 1/30/2020 [Origins of MERS-CoV, and lessons for 2019-nCoV](#)
- 2/1/2020 [A pneumonia outbreak associated with a new coronavirus of probable bat origin](#)
- 2/1/2020 [The continuing 2019-nCoV epidemic threat of novel CoV to global health - The latest outbreak in Wuhan, China](#)
- 2/1/2020 [Analysis of Wuhan Coronavirus: déjà vu \[findings on 1/29, 1st edition on 2/1\]](#)
- 2/2/2020 [Quick retraction of coronavirus paper was good moment for science](#)
- 2/3/2020 [Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence](#)
- 2/4/2020 [HIV-1 did not contribute to the 2019-nCoV genome](#)
- 2/6/2020 [Tackling Rumors of a Suspicious Origin of nCoV2019 - SARS-CoV-2 coronavirus](#)
- 2/7/2020 [NASEM Response to OSTP re Coronavirus February 6, 2020](#)
- 2/13/2020 [No credible evidence supporting claims of the laboratory engineering of SARS-CoV-2](#)
- 2/14/2020 [The First Disease X is Caused by a Highly Transmissible Acute Respiratory Syndrome Coronavirus](#)
- 2/16/2020 [The proximal origin of SARS-CoV-2](#)
- 2/19/2020 [Is SARS-CoV-2 originated from laboratory? A rebuttal to the claim of formation via laboratory recombination](#)
- 2/19/2020 [Statement in support of the scientists, public health prof., and medical prof. of China combatting COVID-19](#)
- 5/1/2020 [A Multibasic Cleavage Site in the Spike Protein of SARS-CoV-2 Is Essential for Infection of Human Lung Cells](#)
- 8/28/2020 [The Mutations that Caused Covid-19 Reinfection Explained](#)
- 9/3/2020 [COVID-19 futures: a framework for exploring medium and long-term impacts](#)
- 1/25/2022 [Close Relatives of MERS-CoV in bats use ACE2 as their functional receptors \[NeoCoV\]](#)
- 3/4/2022 [Luc Montagnier \(1932–2022\) - Obituary](#)
- 4/1/2022 [The Animal Origin of Major Human Infectious Diseases: What Can Past Epidemics Teach Us About Preventing the Next Pandemic?](#)
- 4/5/2022 [Reviewing findings on the polypeptide sequence of the SARS-CoV-2 protein to discuss the origins of the virus](#)

China & US HIV-CoV Vaccine & Therapeutics Research [by research focus]**HIV-SARS Pseudovirus etc.**

- 1/28/2004 [Expression cloning of functional receptor used by SARS coronavirus - ScienceDirect](#)
- 7/1/2006 [Preparation of a Chimeric Armored RNA as a Versatile Calibrator for Multiple Virus Assays](#)
- 9/28/2021 [The SARS CoV-2 spike directed non-neutralizing polyclonal antibodies cross-react with HIV-1 gp41](#)

Spike Protein, other

- 7/1/2005 [Evaluating the immunogenicity of a disulfide-stabilized, cleaved, trimeric form of the envelope glycoprotein complex of HIV-1](#)
- 9/16/2005 [Structure of SARS Coronavirus Spike Receptor-Binding Domain Complexed with Receptor](#)
- 4/1/2010 [Recombination, reservoirs, and the modular spike: mechanisms of coronavirus cross-species transmission](#)
- 7/14/2010 [TMPRSS2 and TMPRSS4 facilitate trypsin-independent spread of influenza virus in Caco-2 cells](#)

HIV Vaccine design

- 1/1/2005 [Development of Mouse Hepatitis Virus and SARS-CoV Infectious cDNA Constructs](#)
- 5/23/2012 [A short segment of the HIV-1 gp120 V1/V2 region is a major determinant of resistance to V1/V2 neutralizing antibodies](#)
- 7/15/2012 [Extended Follow-up Confirms Early Vaccine-Enhanced Risk of HIV Acquisition and Demonstrates Waning Effect Over Time Among Participants in a Randomized Trial of Recombinant Adenovirus HIV Vaccine](#)
- 8/4/2014 [Stabilizing the Native Trimer of HIV-1 Env by Destabilizing the Heterodimeric Interface of the gp41 Post fusion Six-Helix Bundle](#)
- 8/21/2017 [Crystal structures of trimeric HIV envelope with entry inhibitors BMS-378806 and BMS-626529](#)
- 5/15/2018 [HIV-1 Vaccines Based on Antibody Identification, B Cell Ontogeny, and Epitope Structure](#)
- 7/1/2019 [Presentation of HIV-1 envelope glycoprotein trimers on diver...](#)
- 12/9/2020 [Stabilized diverse HIV-1 envelope trimers for vaccine design](#)
- 11/24/2021 [Structure-guided envelope trimer design in HIV-1 vaccine development: a narrative review](#)

Peptide Fusion Inhibitors

- 5/1/2003 [Model of the pre-insertion region of the spike \(S2\) fusion glycoprotein of the human SARS-CoV: implications for antiviral therapeutics](#)
- 6/1/2003 [Cloaked similarity between HIV-1 and SARS-CoV suggests an anti-SARS strategy](#)
- 5/1/2004 [Structural similarity between HIV-1 gp41 and SARS-CoV S2 proteins suggests an analogous membrane fusion mechanism](#)
- 4/12/2006 [Inhibition of SARS-associated CoV infectivity by peptides analogous to the viral spike protein](#)
- 5/1/2009 [Structures and Mechanisms of Viral Membrane Fusion Proteins](#)
- 6/1/2012 [Discovery of Critical Residues for Viral Entry and Inhibition through Structural Insight of HIV-1 Fusion Inhibitor CP621-652](#)
- 12/7/2012 [A bivalent recombinant protein inactivates HIV-1 by targeting the gp41 prehairpin fusion intermediate induced by CD4 D1D2 domains](#)
- 1/22/2013 [HIV-1 Fusion Is Blocked through Binding of GB Virus C E2D Peptides to the HIV-1 gp41 Disulfide Loop](#)
- 1/2/2015 [Design of a highly potent HIV-1 fusion inhibitor targeting t...](#)
- 5/15/2016 [Development of potent and long-acting HIV-1 fusion inhibitor...](#)
- 5/12/2017 [A Lipopeptide HIV-1/2 Fusion Inhibitor with Highly Potent In Vitro, Ex Vivo, and In Vivo Antiviral Activity](#)
- 4/10/2019 [A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike](#)
- 2/11/2020 [Fusion mechanism of 2019-nCoV and fusion inhibitors targeting HR1 domain in spike protein](#)
- 3/2/2020 [Medical Countermeasures Analysis of 2019-nCoV and Vaccine Risks for Antibody-Dependent Enhancement](#)
- 3/30/2020 [Inhibition of SARS-CoV-2 infection by a highly potent pan-CoV fusion inhibitor targeting its spike protein that harbors a high capacity to mediate membrane fusion](#)
- 6/1/2020 [Coronavirus membrane fusion mechanism offers a potential target for antiviral development](#)
- 9/1/2020 [Opening the HIV envelope: potential of CD4 mimics as multifunctional HIV entry inhibitors](#)
- 12/9/2020 [Protein- and Peptide-Based Virus Inactivators: Inactivating Viruses Before Their Entry Into Cells](#)
- 12/11/2020 [Inhibition of Coronavirus Entry In Vitro and Ex Vivo by a Lipid-Conjugated Peptide Derived from the SARS-CoV-2 Spike Glycoprotein HRC Domain](#)
- 1/9/2021 [Pan-coronavirus fusion inhibitors as the hope for today and tomorrow](#)
- 1/13/2021 [Enfuvirtide, an HIV-1 fusion inhibitor peptide, can act as a potent SARS-CoV-2 fusion inhibitor](#)
- 4/13/2021 [Pan-CoV fusion inhibitors possess potent inhibitory activity against HIV-1, HIV-2, and SIV](#)
- 4/30/2021 [Supercoiling Structure-Based Design of a Trimeric Coiled-Coil Peptide with High Potency against HIV-1 and Human \$\beta\$ -Coronavirus Infection](#)
- 7/29/2021 [Structural and functional basis for pan-CoV fusion inhibitors against SARS-CoV-2 and its variants with preclinical evaluation](#)

- 12/31/2021 [Discovery of Highly Potent Fusion Inhibitors with Potential Pan-CoV Activity That Effectively Inhibit Major COVID-19 VOCs in Pseudovirus-Based Assays](#)
- 3/30/2022 [The Need for Speed and Efficiency: A Brief Review of Small Molecule Antivirals for COVID-19](#)
- 4/11/2022 [Coronavirus Entry Inhibitors](#)
- 4/13/2022 [Peptide-Based HIV Entry Inhibitors](#)

Small Molecule Inhibitors

- 1/15/2000 [A Recombinant HIV-1 Envelope Glycoprotein Complex Stabilized by an Intermolecular Disulfide Bond between the gp120 and gp41 Subunits Is an Antigenic Mimic of the Trimeric Virion-Associated Structure](#)
- 12/16/2002 [Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes](#)
- 4/16/2004 [Synthetic Bivalent CD4-Mimetic Miniproteins Show Enhanced Anti-HIV Activity over the Monovalent Miniprotein](#)
- 5/13/2005 [Scorpion-toxin mimics of CD4 in complex with human immunodeficiency virus gp120 crystal structures, molecular mimicry, and neutralization breadth](#)
- 2/1/2010 [Protease Cleavage Sites in HIV-1 gp120 Recognized by Antigen Processing Enzymes Are Conserved and Located at Receptor Binding Sites](#)
- 8/15/2021 [Proposal and protocol for the construction of pEF1-ACE2-IGG2-SMAR vector for gene therapy of SARS-CoV-2](#)

DC-SIGN

- 1/15/2003 [Differential N-Linked Glycosylation of HIV & Ebola Virus Envelope Glycoproteins Modulates Interactions with DC-SIGN and DC-SIGNR](#)
- 2/16/2004 [DC-SIGN Binds to HIV-1 Glycoprotein 120 in a Distinct but Overlapping Fashion Compared with ICAM-2 and ICAM-3](#)
- 10/28/2016 [HIV-1 gp120 Glycoprotein Interacting with Dendritic Cell-specific Intercellular Adhesion Molecule 3-grabbing Non-integrin \(DC-SIGN\) Down-Regulates Tight Junction Proteins to Disrupt the Blood Retinal Barrier and Increase Its Permeability](#)
- 8/10/2020 [DC/L-SIGN recognition of spike glycoprotein promotes SARS-CoV-2 trans-infection and can be inhibited by a glycomimetic antagonist](#)

China & US HIV-CoV Vaccine & Therapeutics Research [combined]

- 1/15/2000 [A Recombinant HIV-1 Envelope Glycoprotein Complex Stabilized by an Intermolecular Disulfide Bond between the gp120 and gp41 Subunits Is an Antigenic Mimic of the Trimeric Virion-Associated Structure](#)
- 12/16/2002 [Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes](#)
- 1/15/2003 [Differential N-Linked Glycosylation of HIV & Ebola Virus Envelope Glycoproteins Modulates Interactions with DC-SIGN and DC-SIGNR](#)
- 5/1/2003 [Model of the pre-insertion region of the S2 fusion glycoprotein of the human SARS-CoV: implications for antiviral therapeutics](#)
- 6/1/2003 [Cloaked similarity between HIV-1 and SARS-CoV suggests an anti-SARS strategy](#)
- 1/28/2004 [Expression cloning of functional receptor used by SARS coronavirus - ScienceDirect](#)
- 2/16/2004 [DC-SIGN Binds to HIV-1 Glycoprotein 120 in a Distinct but Overlapping Fashion Compared with ICAM-2 and ICAM-3](#)
- 4/16/2004 [Synthetic Bivalent CD4-Mimetic Miniproteins Show Enhanced Anti-HIV Activity over the Monovalent Minipr.](#)
- 5/1/2004 [Structural sim. between HIV-1 gp41 & SARS-CoV S2 proteins sugg. an analogous membrane fusion mechanism](#)
- 1/1/2005 [Development of Mouse Hepatitis Virus and SARS-CoV Infectious cDNA Constructs](#)
- 5/13/2005 [Scorpion-toxin mimics of CD4 in complex with human immunodeficiency virus gp120 crystal structures, molecular mimicry, and neutralization breadth](#)
- 7/1/2005 [Evaluating the immunogenicity of a disulfide-stabilized, cleaved, trimeric form of the envelope glycoprotein complex of HIV-1](#)
- 9/16/2005 [Structure of SARS Coronavirus Spike Receptor-Binding Domain Complexed with Receptor](#)
- 4/12/2006 [Inhibition of SARS-associated CoV infectivity by peptides analogous to the viral spike protein](#)
- 7/1/2006 [Preparation of a Chimeric Armored RNA as a Versatile Calibrator for Multiple Virus Assays](#)
- 5/1/2009 [Structures and Mechanisms of Viral Membrane Fusion Proteins](#)
- 2/1/2010 [Protease Cleavage Sites in HIV-1 gp120 Recognized by Antigen Processing Enzymes Are Conserved and Located at Receptor Binding Sites](#)
- 4/1/2010 [Recombination, reservoirs, and the modular spike: mechanisms of coronavirus cross-species transmission](#)
- 7/14/2010 [TMPRSS2 and TMPRSS4 facilitate trypsin-independent spread of influenza virus in Caco-2 cells](#)
- 4/18/2011 [Hypoxia enhances cancer cell invasion through relocalization of the proprotein convertase furin from the trans-golgi network to the cell surface](#)
- 5/23/2012 [A short segment of the HIV-1 gp120 V1/V2 region is a major determinant of resistance to V1/V2 neutralizing antibodies](#)

- 6/1/2012 [Discovery of Critical Residues for Viral Entry and Inhibition through Structural Insight of HIV-1 Fusion Inhibitor CP621–652](#)
- 7/15/2012 [Extended Follow-up Confirms Early Vaccine-Enhanced Risk of HIV Acquisition and Demonstrates Waning Effect Over Time Among Participants in a Randomized Trial of Recombinant Adenovirus HIV Vaccine](#)
- 12/7/2012 [A bivalent recombinant protein inactivates HIV-1 by targeting the gp41 pre-hairpin fusion intermediate induced by CD4 D1D2 domains](#)
- 1/22/2013 [HIV-1 Fusion Is Blocked through Binding of GB Virus C E2D Peptides to the HIV-1 gp41 Disulfide Loop](#)
- 8/4/2014 [Stabilizing the Native Trimer of HIV-1 Env by Destabilizing the Heterodimeric Interface of the gp41 Postfusion Six-Helix Bundle](#)
- 1/2/2015 [Design of a highly potent HIV-1 fusion inhibitor targeting t...](#)
- 5/15/2016 [Development of potent and long-acting HIV-1 fusion inhibitor...](#)
- 10/28/2016 [HIV-1 gp120 Glycoprotein Interacting with Dendritic Cell-specific Intercellular Adhesion Molecule 3-grabbing Non-integrin \(DC-SIGN\) Down-Regulates Tight Junction Proteins to Disrupt the Blood Retinal Barrier and Increase Its Permeability](#)
- 5/12/2017 [A Lipopeptide HIV-1/2 Fusion Inhibitor with Highly Potent In Vitro, Ex Vivo, and In Vivo Antiviral Activity](#)
- 8/21/2017 [Crystal structures of trimeric HIV envelope with entry inhibitors BMS-378806 and BMS-626529](#)
- 3/22/2018 [Controversial HIV Researcher Robert Redfield Is CDC Director](#)
- 5/15/2018 [HIV-1 Vaccines Based on Antibody Identification, B Cell Ontogeny, and Epitope Structure](#)
- 4/10/2019 [A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike](#)
- 7/1/2019 [Presentation of HIV-1 envelope glycoprotein trimers on diver...](#)
- 2/11/2020 [Fusion mechanism of 2019-nCoV and fusion inhibitors targeting HR1 domain in spike protein](#)
- 3/2/2020 [Medical Countermeasures Analysis of 2019-nCoV and Vaccine Risks for Antibody-Dependent Enhancement \(ADE\) by Darrell Ricke, Robert W. Malone :: SSRN](#)
- 3/30/2020 [Inhibition of SARS-CoV-2 infection by a highly potent pan-CoV fusion inhibitor targeting its spike protein that harbors a high capacity to mediate membrane fusion](#)
- 6/1/2020 [Coronavirus membrane fusion mechanism offers a potential target for antiviral development](#)
- 8/10/2020 [DC/L-SIGN recognition of spike glycoprotein promotes SARS-CoV-2 trans-infection and can be inhibited by a glycomimetic antagonist](#)
- 9/1/2020 [Opening the HIV envelope: potential of CD4 mimics as multifunctional HIV entry inhibitors](#)
- 12/9/2020 [Protein- and Peptide-Based Virus Inactivators: Inactivating Viruses Before Their Entry Into Cells](#)
- 12/9/2020 [Stabilized diverse HIV-1 envelope trimers for vaccine design](#)
- 12/11/2020 [Inhibition of CoV Entry In Vitro and Ex Vivo by a Lipid-Conjugated Peptide Derived from the SARS-CoV-2 Spike Glycoprotein HRC Domain](#)
- 1/9/2021 [Pan-coronavirus fusion inhibitors as the hope for today and tomorrow](#)
- 1/13/2021 [Enfuvirtide, an HIV-1 fusion inhibitor peptide, can act as a potent SARS-CoV-2 fusion inhibitor: an in-silico drug repurposing study](#)
- 4/13/2021 [Pan-CoV fusion inhibitors possess potent inhibitory activity against HIV-1, HIV-2, and SIV](#)
- 4/30/2021 [Supercoiling Structure-Based Design of a Trimeric Coiled-Coil Peptide with High Potency against HIV-1 & Human \$\beta\$ -CoV Infection](#)
- 7/29/2021 [Structural and functional basis for pan-CoV fusion inhibitors against SARS-CoV-2 and its variants with preclinical evaluation](#)
- 8/15/2021 [Proposal and protocol for the construction of pEF1-ACE2-IGG2-SMAR vector for gene therapy of SARS-CoV-2](#)
- 9/28/2021 [The SARS CoV-2 spike directed non-neutralizing polyclonal antibodies cross-react with HIV-1 gp41](#)
- 11/24/2021 [Structure-guided envelope trimer design in HIV-1 vaccine development: a narrative review](#)
- 12/31/2021 [Discovery of Highly Potent Fusion Inhibitors with Potential Pan-CoV Activity That Effectively Inhibit Major COVID-19 VOCs in Pseudovirus-Based Assays](#)
- 3/30/2022 [The Need for Speed and Efficiency: A Brief Review of Small Molecule Antivirals for COVID-19](#)
- 4/11/2022 [Coronavirus Entry Inhibitors](#)
- 4/13/2022 [Peptide-Based HIV Entry Inhibitors](#)

SARS-CoV-2 2nd & 3rd order effects

- 12/15/2004 [Hypoxia-enhanced Expression of the Proprotein Convertase Furin Is Mediated by Hypoxia-inducible Factor-1](#)
- 4/3/2020 [The Role of Autophagy in Respiratory Complications of COVID-19](#)
- 4/13/2020 [The potential for ADE of SARS-CoV-2 infection: Translational implications for vaccine development](#)
- 5/6/2020 [The anti-HIV drug nelfinavir mesylate \(Viracept\) is a potent inhibitor of cell fusion caused by the SARSCoV-2 spike \(S\) glycoprotein warranting further evaluation as an antiviral against COVID-19 infections](#)
- 5/14/2020 [Novel ACE2-Ind. Carbohydrate-Binding of SARS-CoV-2 Spike Protein to Host Lectins and Lung Microbiota](#)
- 6/29/2020 [Superantigenic character of an insert unique to SARS-CoV-2 spike supported by skewed TCR repertoire in patients with hyperinflammation](#)
- 9/9/2020 [Cross-reactivity of SARS-CoV-2 with HIV chemiluminescent assay leading to false-positive results](#)
- 3/5/2021 [Broad phenotypic alterations & potential dysf. of lymphocytes in ind. clinically recovered from COVID-19](#)
- 7/16/2021 [The mechanism behind flaring/triggering of autoimmunity disorders associated with COVID-19](#)

- 12/20/2021 [Role of the T cell vitamin D receptor in severe COVID-19](#)
- 12/21/2021 [How Does SARS-CoV-2 Affect the Brain and Its Implications for the Vaccines Currently in Use](#)
- 1/22/2022 [T cell apoptosis characterizes severe Covid-19 disease](#)
- 3/11/2022 [ACE2-independent infection of T lymphocytes by SARS-CoV-2](#)
- 4/15/2022 [Innate immune suppression by SARS-CoV-2 mRNA vaccinations: The role of G-quadruplexes, exosomes, and MicroRNAs](#)
- 4/7/2022 [New generation of cancer-preventing vaccines could wipe out tumors before they form](#)

Investigations

- 1/27/2020 [Coronavirus Exposed, Part 1: Communist Coverup, or Pandemic Bioweapon of Mass Destruction?](#)
- 1/28/2020 [Bats, Gene Editing and Bioweapons: Recent DARPA Experiments Raise Concerns Amid Coronavirus Outbreak](#)
- 2/2/2020 [Moderately Strong Confirmation of a Laboratory Origin of 2019-nCoV](#)
- 2/10/2020 [The spike glycoprotein of the new 2019-nCoV contains a furin-like cleavage site absent in CoV of the same clade](#)
- 2/15/2020 [Coronavirus Origins: Anatomy of a Scientific Inference](#)
- 4/22/2020 [Lab-made? SARS-CoV-2 genealogy through the lens of gain-of-function research](#)
- 5/2/2020 [SARS-CoV-2 is well adapted for humans: What does this mean for re-emergence?](#)
- 2/1/2021 [Vector sequences in early WIV SRA sequencing data of SARS-CoV-2 inform on a potential large-scale security breach at the beginning of the COVID-19 pandemic](#)
- 2/4/2021 [Safety and security concerns regarding transmissible vaccines](#)
- 2/17/2021 [Another Potential Covid-19 Lab Leak Clue](#)
- 3/16/2021 [Neutralising antibody escape of SARS-CoV-2 spike protein: Risk assessment for antibody-based Covid-19 therapeutics and vaccines](#)
- 3/18/2021 [Letter from House Republicans to NIH Director Francis Collins seeking to advance an independent, scientific investigation into the origins of the COVID-19 pandemic](#)
- 6/29/2021 [House Republican Hearing on COVID-19 Origin](#)
- 7/3/2021 [CONTAMINATION OR VACCINE RESEARCH? RNA Sequencing data of early COVID-19 patient samples show abnormal presence of vectorized H7N9 hemagglutinin segment | Zenodo](#)
- 7/22/2021 [Who Watches the Watchmen? - Fauci's 'noble lie,' exposed](#)
- 7/23/2021 [Viral infection and transmission in a large, well-traced outbreak caused by the SARS-CoV-2 Delta variant](#)
- 8/6/2021 [SARS-CoV-2 spike and its adaptable furin cleavage site](#)
- 10/1/2021 [Global Diversification and Distribution of Coronaviruses With Furin Cleavage Sites](#)
- 10/19/2021 [Rapid Proliferation of Pandemic Research: Implications for Dual-Use Risks](#)
- 10/21/2021 [EcoHealth Alliance Conducted Risky Experiments on MERS Virus in China](#)
- 10/26/2021 [EcoHealth letter of clarification to Tabak & the NIH](#)
- 10/27/2021 [2021.10.27-Letter-to-NIH - House Energy & Commerce Committee](#)
- 10/27/2021 [In Major Shift, NIH Admits Funding Risky Virus Research in Wuhan](#)
- 11/17/2021 [Automated discovery of noncovalent inhibitors of SARS-CoV-2 main protease by consensus Deep Docking of 40 billion small molecules](#)
- 12/14/2021 [The seminal paper from the WIV claiming SARS-CoV-2 probably originated in bats appears to contain a contrived specimen...and the signature of laboratory-derived synthetic biology](#)
- 11/1/2021 [SARS-CoV-2's closest relative, RaTG13, was generated from a bat transcriptome not a fecal swab: implications for the origin of COVID-19](#)
- 11/3/2021 [NIH Officials Worked With EcoHealth Alliance to Evade Restrictions on Coronavirus Experiments](#)
- 11/12/2021 [Emergence of the Spike Furin Cleavage Site in SARS-CoV-2](#)
- 12/23/2021 [Unique SARS-CoV-2 variant found in public sequence data of Antarctic soil samples collected in 2018 & 2019](#)
- 12/31/2021 [Joe Rogan Experience #1757 Transcript - Robert Malone](#)
- 1/10/2022 [USMC IG's whistleblower report: SARS-CoV-2 Origins Investigation with US Government Program Undisclosed Document Analysis](#)
- 1/12/2022 [House Energy & Commerce Committee letter to NIH, January 2022](#)
- 4/5/2022 [House E&C Committee - 2nd letter to Lawrence Tabak, acting NIH director, concerning Daszak & EHA](#)

References

[in chronological order]

Montagnier, Luc et al. [Isolation of a T-Lymphotropic Retrovirus from a Patient at Risk for AIDS](#). *Science*, 5/20/1983.

Montagnier, Luc et al. [A new type of retrovirus isolated from patients presenting with lymphadenopathy & AIDS: Structural and antigenic relatedness with equine infectious anaemia virus](#). *Science*, 3/2/1984.

Gallo, Robert et al. [Detection, Isolation, and Continuous Production of Cytopathic Retroviruses \(HTLV-III\) from Patients with AIDS and Pre-AIDS](#). *Science*, 5/4/1984.

Wain-Hobson, Simon et al. [Nucleotide sequence of the AIDS virus, LAV: Cell](#). *Cell*, 1/1/1985.

Gallagher, William. [Detection of a fusion peptide sequence in the transmembrane protein of human immunodeficiency virus](#). *Cell*, 7/31/1987.

Binley, James et al. [A Recombinant HIV-1 Envelope Glycoprotein Complex Stabilized by an Intermolecular Disulfide Bond between the gp120 and gp41 Subunits Is an Antigenic Mimic of the Trimeric Virion-Associated Structure](#). *Journal of Virology*, 1/15/2000.

Vita, Claudio & Martin, Loic et al. [Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes](#). *Nature Biotechnology*, 12/16/2002.

Pohlmann, Stefan et al. [Differential N-Linked Glycosylation of HIV & Ebola Virus Envelope Glycoproteins Modulates Interactions with DC-SIGN and DC-SIGNR](#). *Journal of Virology*, 1/15/2003.

Peiris, JSM et al. [Coronavirus as the causative agent of Severe Acute Respiratory Syndrome](#). *The Lancet*, 4/8/2003.

Gallagher, William & Garry, Robert. [Model of the pre-insertion region of the spike \(S2\) fusion glycoprotein of the human SARS coronavirus: implications for antiviral therapeutics](#). *Virology [Archived]*, 5/1/2003.

Yossef Kliger & Erez Levanon. [Cloaked similarity between HIV-1 and SARS-CoV suggests an anti-SARS strategy](#). *BMC Microbiology*, 6/1/2003.

Su, Steven et al. [DC-SIGN Binds to HIV-1 Glycoprotein 120 in a Distinct but Overlapping Fashion Compared with ICAM-2 and ICAM-3](#). *Journal of Biological Chemistry*, 2/16/2004.

Redfield, Robert et al. [Synthetic Bivalent CD4-Mimetic Miniproteins Show Enhanced Anti-HIV Activity over the Monovalent Miniprotein](#). *Bioconjugate Chemistry*, 4/16/2004.

Zhang, Xue Wu & Yap, Yee Leng. [Structural similarity between HIV-1 gp41 and SARS-CoV S2 proteins suggests an analogous membrane fusion mechanism](#). *Journal of Molecular Structure: THEOCHEM*, 5/1/2004.

McMahon, Stephanie et al. [Hypoxia-enhanced Expression of the Proprotein Convertase Furin Is Mediated by Hypoxia-inducible Factor-1](#). *Journal of Biological Chemistry*, 12/14/2004.

Baric, Ralph & Sims, AC. [Development of Mouse Hepatitis Virus and SARS-CoV Infectious cDNA Constructs](#). *Coronavirus Replication & Reverse Genetics*, 1/1/2005.

Huang, Chin Chin et al. [Scorpion-toxin mimics of CD4 in complex with human immunodeficiency virus gp120 crystal structures, molecular mimicry, and neutralization breadth](#). *Structure*, 5/13/2005.

Beddows, Simon et al. [Evaluating the immunogenicity of a disulfide-stabilized, cleaved, trimeric form of the envelope glycoprotein complex of HIV-1](#). *Journal of Virology*, 7/1/2005.

Michael Farzan & Fang Li. [Structure of SARS Coronavirus Spike Receptor-Binding Domain Complexed with Receptor](#). *Science*, 9/16/2005.

Shi, Zheng-Li & Daszak, Peter et al. [Bats are Natural Reservoirs of SARS-like Coronaviruses](#). *Science*, 10/28/2005.

Gallagher, William & Garry, Robert et al. [Inhibition of SARS-associated CoV infectivity by peptides analogous to the viral spike protein](#). *Virus Research* 120, 1-2., 4/12/2006.

Huang, Qiuying et al. [Preparation of a Chimeric Armored RNA as a Versatile Calibrator for Multiple Virus Assays](#). *Clinical Chemistry*, 7/1/2006.

Follis, Kathryn et al. [Furin cleavage of the SARS coronavirus spike glycoprotein enhances cell–cell fusion but does not affect virion entry](#). *Virology*, 7/5/2006.

Shi, Zheng-Li & Daszak, Peter et al. [Review of bats & SARS](#). *Emerging Infectious Diseases*, 12/12/2006.

Baric, Ralph. [Synthetic Viral Genomics: Risks & Benefits for Science & Society](#). *Working Papers for Synthetic Genomics* (39-81), 1/1/2007.

Baric, Ralph et al. [A mouse-adapted SARS-coronavirus causes disease and mortality in BALB/c mice](#). *PLoS Pathogens*, 1/3/2007.

Pohlmann, Stefan & Jiang, Shibo et al. [Discovery and Optimization of a Natural HIV-1 Entry Inhibitor Targeting the gp41 Fusion Peptide](#). *Cell*, 4/20/2007.

Shi, Zheng-Li et al. [Difference in Receptor Usage between Severe Acute Respiratory Syndrome \(SARS\) Coronavirus and SARS-Like Coronavirus of Bat Origin](#). *Journal of Virology*, 12/12/2007.

Baric, Ralph et al. [Synthetic recombinant bat SARS-like coronavirus is infectious in cultured cells and in mice](#). *PNAS*, 11/26/2008.

White, Judith et al. [Structures and Mechanisms of Viral Membrane Fusion Proteins](#). *Critical Reviews in Biochemistry & Molecular Biology*, 5/1/2009.

Yu, Bin et al. [Protease Cleavage Sites in HIV-1 gp120 Recognized by Antigen Processing Enzymes Are Conserved and Located at Receptor Binding Sites](#). *Journal of Virology*, 2/1/2010.

Baric, Ralph & Graham, Barney. [Recombination, reservoirs, and the modular spike: mechanisms of coronavirus cross-species transmission](#). *Journal of Virology*, 4/1/2010.

Pohlmann, Stefan et al. [TMPRSS2 and TMPRSS4 facilitate trypsin-independent spread of influenza virus in Caco-2 cells](#). *Journal of Virology*, 7/14/2010.

Pohlmann, Stefan et al. [Peptide-based inhibitors of the HIV envelope protein and other class I viral fusion proteins](#). *Current Pharmaceutical Design*, 12/1/2010.

Arsenault, Dominique et al. [Hypoxia enhances cancer cell invasion through relocalization of the proprotein convertase furin from the trans-golgi network to the cell surface](#). *Journal of Cellular Physiology*, 4/18/2011.

Chen, Weizao et al. [Engineered Single Human CD4 Domains as Potent HIV-1 Inhibitors and Components of Vaccine Immunogens](#). *Journal of Virology*, 8/17/2011.

Shi, Zheng-Li et al. [Bat SARS-like coronavirus ORF3b homologues display different interferon antagonist activities](#). *Journal of General Virology*, 10/18/2011.

Mascola, John & Kwong, Peter. [A short segment of the HIV-1 gp120 V1/V2 region is a major determinant of resistance to V1/V2 neutralizing antibodies](#). *Journal of Virology*, 5/23/2012.

Chong, Huihui et al. [Discovery of Critical Residues for Viral Entry and Inhibition through Structural Insight of HIV-1 Fusion Inhibitor CP621–652](#). *Journal of Biological Chemistry*, 6/1/2012.

Duerr, Ann et al. [Extended Follow-up Confirms Early Vaccine-Enhanced Risk of HIV Acquisition and Demonstrates Waning Effect Over Time Among Participants in a Randomized Trial of Recombinant Adenovirus HIV Vaccine](#). *The Journal of Infectious Diseases*, 7/15/2012.

Fouchier, Ron et al. [Isolation of a Novel Coronavirus from a Man with Pneumonia in Saudi Arabia](#). *New England Journal of Medicine*, 11/8/2012.

Jiang, Shibo et al. [A bivalent recombinant protein inactivates HIV-1 by targeting the gp41 prehairpin fusion intermediate induced by CD4 D1D2 domains](#). *Retrovirology*, 12/7/2012.

Jiang, Shibo et al. [HIV-1 Fusion Is Blocked through Binding of GB Virus C E2D Peptides to the HIV-1 gp41 Disulfide Loop](#). *PLOS*, 1/22/2013.

Perlman, Stanley & Gallagher, Tom. [Broad reception for coronavirus](#). *Nature*, 3/13/2013.

Shi, Zheng-Li et al. [Identification of Immunogenic Determinants of the Spike Protein of SARS-like Coronavirus](#). *Virologica Sinica*, 4/28/2013.

Fauci, Anthony. [Research on Highly Pathogenic H5N1 Influenza Virus: The Way Forward](#). *mBio*, 5/1/2013.

Shi, Zheng-Li et al. [Isolation and characterization of a bat SARS-like coronavirus that uses the ACE2 receptor](#). *Nature*, 11/28/2013.

Chong, Huihui et al. [Design of a highly potent HIV-1 fusion inhibitor targeting t...](#) *AIDS*, 1/2/2015.

Shi, Zheng-Li, Baric, Ralph & Li, Fang et al. [Two Mutations Were Critical for Bat-to-Human Transmission of Middle East Respiratory Syndrome Coronavirus](#). *Journal of Virology*, 6/10/2015.

- Epstein, Robert et al. [The search engine manipulation effect \(SEME\) and its possible impact on the outcomes of elections](#). *PNAS*, 8/4/2015.
- Shi, Zheng-Li et al. [A SARS-like cluster of circulating bat coronaviruses shows potential for human emergence](#). *Nature Medicine*, 11/9/2015.
- Baric, Ralph et al. [SARS-like WIV1-CoV poised for human emergence](#). *PNAS*, 1/20/2016.
- Shi, Zheng-Li et al. [Coexistence of multiple coronaviruses in several bat colonies in an abandoned mineshaft](#). *Virologica Sinica*, 1/22/2016.
- Chong, Huihui et al. [Development of potent and long-acting HIV-1 fusion inhibitor...](#). *AIDS*, 5/15/2016.
- Qian, Yi-Wen et al. [HIV-1 gp120 Glycoprotein Interacting with Dendritic Cell-specific Intercellular Adhesion Molecule 3-grabbing Non-integrin \(DC-SIGN\) Down-Regulates Tight Junction Proteins to Disrupt the Blood Retinal Barrier and Increase Its Permeability](#). *The Journal of Biological Chemistry*, 10/28/2016.
- OSTP. [Recommended Policy Guidance for Potential Pandemic Pathogen Care and Oversight](#). *White House Archives*, 1/9/2017.
- Shi, Zheng-Li et al. [Discovery of a rich gene pool](#). *PLoS Pathogens*, 2/1/2017.
- Chong, Huihui et al. [A Lipopeptide HIV-1/2 Fusion Inhibitor with Highly Potent In Vitro, Ex Vivo, and In Vivo Antiviral Activity](#). *Journal of Virology*, 5/12/2017.
- Mascola, John et al. [Crystal structures of trimeric HIV envelope with entry inhibitors BMS-378806 and BMS-626529](#). *Nature Chemical Biology*, 8/21/2017.
- Corbett, Kizzmekia et al. [Immunogenicity and structures of a rationally designed prefusion MERS-CoV spike antigen](#). *PNAS*, 8/29/2017.
- Shountz, Tony et al. [Immunological Control of Viral Infections in Bats and the Emergence of Viruses Highly Pathogenic to Humans](#). *Frontiers in Immunology*, 9/11/2017.
- Shi, Zheng-Li & Daszak, Peter et al. [Serological Evidence of Bat SARS-Related Coronavirus Infection in Humans, China](#). *Virologica Sinica*, 3/2/2018.
- Sefferlin, Alexandra. [Controversial HIV Researcher Robert Redfield Is CDC Director](#). *Time*, 3/22/2018.
- Shi, Zheng-Li & Daszak, Peter et al. [Fatal swine acute diarrhoea syndrome caused by an HKU2-related coronavirus of bat origin](#). *Nature*, 4/4/2018.
- Mascola, John & Kwong, Peter. [HIV-1 Vaccines Based on Antibody Identification, B Cell Ontogeny, and Epitope Structure](#). *Immunity*, 5/15/2018.
- Shi, Zheng-Li et al. [Discovery of Novel Bat Coronaviruses in South China that use the Same Receptor as MERS-CoV](#). *Journal of Virology*, 7/1/2018.

- Graham, Barney & Sullivan, Nancy. [Emerging viral diseases from a vaccinology perspective: preparing for the next pandemic](#). *Nature Immunology*, 12/14/2018.
- Drosten, Christian, Graham, Barney & Pohlmann, Stefan et al. [Mutations in the Spike Protein of MERS-CoV Transmitted in Korea Increase Resistance to Antibody-Mediated Neutralization](#). *Journal of Virology*, 1/4/2019.
- Shi, Zheng-Li et al. [Origin and evolution of pathogenic coronaviruses](#). *Nature Reviews: Microbiology*, 3/17/2019.
- Xia, Shuai et al. [A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike](#). *Science Advances*, 4/10/2019.
- Brouwer, Philip et al. [Presentation of HIV-1 envelope glycoprotein trimers on diver...](#). *Current Opinion in HIV & AIDS*, 7/1/2019.
- Shi, Zheng-Li et al. [Discovery of Bat CoV via Surveillance & Probe Capture-Based Next-Gen Sequencing](#). *MSphere [American Society for Microbiology]*, 11/6/2019.
- Baric, Ralph et al. [Trypsin Treatment Unlocks Barrier for Zoonotic Bat Coronavirus Infection](#). *Journal of Virology*, 12/4/2019.
- Shi, Zheng-Li et al. [Molecular mechanism for antibody-dependent enhancement of coronavirus entry](#). *Journal of Virology*, 12/11/2019.
- National Institutes of Health . [NIH-Moderna-Confidential Agreements](#). *FOIA Documents - Judicial Watch*, 12/12/2019.
- Shi, Zheng-Li & Jiang, SD et al.. [An emerging coronavirus causing pneumonia outbreak in Wuhan, China: calling for developing therapeutic and prophylactic strategies](#). *Emerging Microbes & Infections*, 1/21/2020.
- Li Xin et al. [A furin cleavage site was discovered in the spike protein of the 2019 nCoV](#). *Chinese Journal of Bioinformatics*, 1/21/2020.
- Holmes, Edward et al. [Complete genome characterisation of a novel coronavirus associated with severe human respiratory disease in Wuhan, China](#). *Research Gate*, 1/23/2020.
- Shi, Zheng-Li et al. [Discovery of a novel coronavirus associated with the recent pneumonia outbreak in humans and its potential bat origin](#). *Nature*, 1/23/2020.
- Bond, Adrian. [Coronavirus Exposed, Part 1: Communist Coverup, or Pandemic Bioweapon of Mass Destruction?](#). *Medium*, 1/27/2020.
- Webb, Whitney. [Bats, Gene Editing and Bioweapons: Recent DARPA Experiments Raise Concerns Amid Coronavirus Outbreak \(thelastamericanvagabond.com\)](#). *The Last American Vagabond*, 1/28/2020.
- Lu, Hongzhou. [Drug treatment options for the 2019-nCoV](#). *BioScience Trends*, 1/28/2020.

Pradhan, Prashant et al. [Uncanny similarity of unique inserts in the 2019-nCoV spike protein to HIV-1 gp120 and Gag](#). *bioRxiv*, 1/30/2020.

Lu, RZ et al. [Genomic characterisation and epidemiology of 2019 novel coronavirus: implications for virus origins and receptor binding](#). *The Lancet*, 1/30/2020.

Karesh, William et al. [Origins of MERS-CoV, and lessons for 2019-nCoV](#). *The Lancet Planetary Health*, 1/30/2020.

Drosten, Christian et al. [The continuing 2019-nCoV epidemic threat of novel coronaviruses to global health - The latest outbreak in Wuhan, China](#). *International Journal of Infectious Diseases*, 2/1/2020.

Gallaher, William & Gallaher, Andrew. [Analysis of Wuhan Coronavirus: déjà vu \[findings on 1/29, 1st edition on 2/1\]](#). *Virological.org*, 2/1/2020.

Shi, Zheng-Li et al. [A pneumonia outbreak associated with a new coronavirus of probable bat origin](#). *Nature*, 2/1/2020.

Oransky, Ivan & Marcus, Adam. [Quick retraction of coronavirus paper was good moment for science](#). *StatNews*, 2/2/2020.

Weiler, James Lyons. [Moderately Strong Confirmation of a Laboratory Origin of 2019-nCoV](#). *JamesLyonsWeiler.com*, 2/2/2020.

Drosten, Christian & Wang, Linfa et al. [Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence](#). *eLife*, 2/3/2020.

Chuan Xiao et al. [HIV-1 did not contribute to the 2019-nCoV genome](#). *Emerging Microbes & Infections*, 2/4/2020.

Gallaher, William. [Tackling Rumors of a Suspicious Origin of nCoV2019 - SARS-CoV-2 coronavirus](#). *Virological.org*, 2/6/2020.

Daszak, Baric, Andersen, Perlman. [NASEM Response to OSTP re Coronavirus February 6, 2020](#). *OSTP site*, 2/7/2020.

Coutard, B. et al. [The spike glycoprotein of the new coronavirus 2019-nCoV contains a furin-like cleavage site absent in CoV of the same clade](#). *Antiviral Research*, 2/10/2020.

Shi, Zheng-Li et al. [Fusion mechanism of 2019-nCoV and fusion inhibitors targeting HR1 domain in spike protein](#). *Cellular & Molecular Immunology*, 2/11/2020.

Saif, Linda, Weiss, Susan, Su, Lishan & Liu, Shan-Lu. [No credible evidence supporting claims of the laboratory engineering of SARS-CoV-2](#). *Emerging Microbes & Infections*, 2/13/2020.

Shi, Zheng-Li et al. [The First Disease X is Caused by a Highly Transmissible Acute Respiratory Syndrome Coronavirus](#). *Virologica Sinica*, 2/14/2020.

Weiler, James Lyons. [Coronavirus Origins: Anatomy of a Scientific Inference](#). *JamesLyonsWeiler.com*, 2/15/2020.

- Andersen, Kristian et al. [The proximal origin of SARS-CoV-2](#). *Nature Medicine*, 2/16/2020.
- Shi, Zheng-Li et al. [Molecular and serological investigation of 2019-nCoV infected patients: implication of multiple shedding routes](#). *Emerging Microbes & Infections*, 2/17/2020.
- Hao Pei et al. [Is SARS-CoV-2 originated from laboratory? A rebuttal to the claim of formation via laboratory recombination](#). *Emerging Microbes & Infections*, 2/19/2020.
- Daszak, Peter et al. [Statement in support of the scientists, public health professionals, and medical professionals of China combatting COVID-19](#). *The Lancet*, 2/19/2020.
- Malone, Robert & Ricke, Darrell. [Medical Countermeasures Analysis of 2019-nCoV and Vaccine Risks for Antibody-Dependent Enhancement \(ADE\) by Darrell Ricke, Robert W. Malone :: SSRN](#). *SSRN*, 3/2/2020.
- Perez, Jean-Claude. [WUHAN COVID-19 SYNTHETIC ORIGINS AND EVOLUTION](#). *Zenodo*, 3/23/2020.
- Shi, Zheng-Li et al. [Inhibition of SARS-CoV-2 infection by a highly potent pan-CoV fusion inhibitor targeting its spike protein that harbors a high capacity to mediate membrane fusion](#). *Cell Research*, 3/30/2020.
- Fakher, Shima et al. [The Role of Autophagy in Respiratory Complications of COVID-19](#). *Shiraz E-Medical Journal*, 4/3/2020.
- Wang, Jiong & Zand, Martin. [The potential for antibody-dependent enhancement of SARS-CoV-2 infection: Translational implications for vaccine development](#). *Journal of Clinical & Translational Science*, 4/13/2020.
- Deigin, Yuri. [Lab-made? SARS-CoV-2 genealogy through the lens of gain-of-function research](#). *Medium*, 4/22/2020.
- Perez, Jean-Claude & Montagnier, Luc. [COVID-19, SARS and Bats Coronaviruses Genomes Unexpected Exogenous RNA Sequences](#). *OSF Pre-Prints*, 4/25/2020.
- Arumugham, Vinu. [Root cause of COVID-19? Biotechnology's dirty secret: Contamination. Bioinformatics evidence demonstrates that SARS-CoV-2 was created in a laboratory....](#). *Zenodo*, 4/25/2020.
- Pohlmann, Stefan et al. [A Multibasic Cleavage Site in the Spike Protein of SARS-CoV-2 Is Essential for Infection of Human Lung Cells](#). *Molecular Cell*, 5/1/2020.
- Zhan, Shing Hei & Chan, Alina. [SARS-CoV-2 is well adapted for humans: What does this mean for re-emergence?](#). *bioRxiv*, 5/2/2020.
- Musarrat, Farhana et al. [The anti-HIV drug nelfinavir mesylate \(Viracept\) is a potent inhibitor of cell fusion caused by the SARSCoV-2 spike \(S\) glycoprotein warranting further evaluation as an antiviral against COVID-19 infections](#). *Journal of Medical Virology*, 5/6/2020.
- Chiodo, Fabrizio et al. [Novel ACE2-Independent Carbohydrate-Binding of SARS-CoV-2 Spike Protein to Host Lectins and Lung Microbiota](#). *bioRxiv*, 5/14/2020.

Anonymous. [Guoke Faji 2019/236 and the SARS-CoV-2 Outbreak](#). *Telegraph*, 5/15/2020.

Whitaker, Gary et al. [Coronavirus membrane fusion mechanism offers a potential target for antiviral development](#). *Antiviral Research*, 6/1/2020.

Sørensen, Birger, Dagleish, Angus & Susrud, Andres. [BioVacc-19: A candidate vaccine.....](#). *QRB Discovery*, 6/2/2020.

Bahar, Ivet et al. [Superantigenic character of an insert unique to SARS-CoV-2 spike supported by skewed TCR repertoire in patients with hyperinflammation](#). *PNAS*, 6/29/2020.

Dagleish, Angus et al. [The evidence which suggests that this is no naturally evolved virus](#). *Minerva*, 7/2/2020.

Perez, Jean-Claude & Montagnier, Luc. [HIV man-manipulated coronavirus genome evolution trends](#). *Zenodo*, 8/2/2020.

Castro-Chavez, Fernando. [Anticovidian v.2 COVID-19: Hypothesis of the Lab Origin Versus a Zoonotic Event which can also be of a Lab Origin](#). *Global Journals*, 8/5/2020.

Michel Thepaut et al. [DC/L-SIGN recognition of spike glycoprotein promotes SARS-CoV-2 trans-infection and can be inhibited by a glycomimetic antagonist](#). *bioRxiv*, 8/10/2020.

Yong, Shin Jie. [The Mutations that Caused Covid-19 Reinfection Explained](#). *Medium*, 8/28/2020.

Laumaea, Annemarie et al. [Opening the HIV envelope: potential of CD4 mimics as multifunctional HIV entry inhibitors](#). *Current Opinion in HIV & AIDS*, 9/1/2020.

Farrar, Jeremy & Holmes, Edward et al. [COVID-19 futures: a framework for exploring medium and long-term impacts](#). *SSRN*, 9/3/2020.

Tan, Shaun et al. [Cross-reactivity of SARS-CoV-2 with HIV chemiluminescent assay leading to false-positive results](#). *British Medical Journal*, 9/9/2020.

Cheng, Mary Hongying. [Superantigenic character of an insert unique to SARS-CoV-2 spike supported by skewed TCR repertoire in patients with hyperinflammation | PNAS](#). *PNAS*, 9/28/2020.

Wang, Qian et al. [Stabilized diverse HIV-1 envelope trimers for vaccine design](#). *Emerging Microbes & Infections*, 12/9/2020.

Jiang, Shibo et al. [Protein- and Peptide-Based Virus Inactivators: Inactivating Viruses Before Their Entry Into Cells](#). *Frontiers in Microbiology*, 12/9/2020.

Outlaw, Viktor et al. [Inhibition of Coronavirus Entry In Vitro and Ex Vivo by a Lipid-Conjugated Peptide Derived from the SARS-CoV-2 Spike Glycoprotein HRC Domain](#). *mBio*, 12/11/2020.

Wang, Xinling et al. [Pan-coronavirus fusion inhibitors as the hope for today and tomorrow](#). *Protein & Cell*, 1/9/2021.

Ahmedi, Khadijeh et al. [Enfuvirtide, an HIV-1 fusion inhibitor peptide, can act as a potent SARS-CoV-2 fusion inhibitor: an in silico drug repurposing study](#). *Journal of Biomolecular Structure & Dynamics*, 1/13/2021.

Zhang, Daoyu. [Vector sequences in early WIV SRA sequencing data of SARS-CoV-2 inform on a potential large-scale security breach at the beginning of the COVID-19 pandemic](#). *Zenodo*, 2/1/2021.

Esvelt, Kevin et al. [Safety and security concerns regarding transmissible vaccines](#). *Nature Ecology & Evolution*, 2/4/2021.

Editorial Board. [Another Potential Covid-19 Lab Leak Clue](#). *The Wall Street Journal*, 2/17/2021. <https://www.wsj.com/articles/another-potential-covid-19-lab-leak-clue-china-11644615472>

Yang, Jingyi et al. [Broad phenotypic alterations and potential dysfunction of lymphocytes in individuals clinically recovered from COVID-19](#). *Journal of Cell & Molecular Biology*, 3/5/2021.

Focosi, Daniele & Maggi, Fabrizio. [Neutralising antibody escape of SARS-CoV-2 spike protein: Risk assessment for antibody-based Covid-19 therapeutics and vaccines](#). *Reviews in Medical Virology*, 3/16/2021.

McMorris-Rodgers, Cathy et al. [Letter from House Republicans to NIH Director Francis Collins seeking to advance an independent, scientific investigation into the origins of the COVID-19 pandemic](#). *House E&C Committee*, 3/18/2021.

Yu, Danwei et al. [Pan-CoV fusion inhibitors possess potent inhibitory activity against HIV-1, HIV-2, and SIV](#). *Emerging Microbes & Infections*, 4/13/2021.

Xia, Shuai et al. [Supercoiling Structure-Based Design of a Trimeric Coiled-Coil Peptide with High Potency against HIV-1 and Human \$\beta\$ -Coronavirus Infection](#). *Journal of Medical Chemistry*, 4/30/2021.

House Republican caucus. [House Republican Hearing on COVID-19 Origin](#). *US House of Representatives*, 6/29/2021.

Fleming, Richard. [Dr. Richard Fleming discusses the HIV inserts](#). *YouTube*, 7/1/2021.

Jones, Steven. [CONTAMINATION OR VACCINE RESEARCH? RNA Sequencing data of early COVID-19 patient samples show abnormal presence of vectorized H7N9 hemagglutinin segment | Zenodo](#). *Zenodo*, 7/3/2021.

Fleming, Richard. [BASES2021 SARS CoVd2 Gain of Function Research Violations of Law](#). *Youtube*, 7/15/2021.

Uversky, Vladimir et al. [The mechanism behind flaring/triggering of autoimmunity disorders associated with COVID-19](#). *Autoimmunity Reviews*, 7/16/2021.

Rixey, Charles. [Who Watches the Watchmen? - Fauci's 'noble lie,' exposed](#). *Prometheus Shrugged*, 7/22/2021.

Li, Baisheng et al. [Viral infection and transmission in a large, well-traced outbreak caused by the SARS-CoV-2 Delta variant](#). *Nature Communications*, 7/23/2021.

Jiang, Shibo et al. [Structural and functional basis for pan-CoV fusion inhibitors against SARS-CoV-2 and its variants with preclinical evaluation](#). *Signal Transduction & Targeted Therapy*, 7/29/2021.

Whitaker, Gary et al. [SARS-CoV-2 spike and its adaptable furin cleavage site](#). *The Lancet Microbe*, 8/6/2021.

Suryanarayanan, Sainath. [Fang-Li-emails.pdf](#). *US Right-to-Know*, 8/14/2021.

Zhang, Daoyu. [Proposal and protocol for the construction of pEF1-ACE2-IGG2-SMAR vector for gene therapy of SARS-CoV-2](#). *Zenodo*, 8/15/2021.

Wain-Hobson, Simon. [A Lab Accident would be the Chernobyl of Biology](#). *Le Point*, 9/10/2021.

Curelli, Francesca et al. [Discovery of Highly Potent Fusion Inhibitors with Potential Pan-CoV Activity That Effectively Inhibit Major COVID-19 Variants of Concern \(VOCs\) in Pseudovirus-Based Assays](#). *Viruses*, 9/17/2021.

DRASTIC. [PREEMPT - DRASTIC'S Analysis of the DEFUSE Rejection Letter](#). *DRASTIC*, 9/20/2021.

DRASTIC. [PREEMPT - DRASTIC's Analysis of the PREEMPT/DEFUSE Proposal](#). *DRASTIC*, 9/20/2021.

Martensen, Chris. [Odds increase that SARS-CoV-2 was lab-made](#). *Peak Prosperity/YouTube*, 9/21/2021.

Wade, Nicholas. [New Routes to Making Covid-19 In The Lab](#). *Medium*, 9/23/2021.

Gallagher, Mike. [Why DRASTIC's PREEMPT release is so important](#). *US House of Representatives*, 9/23/2021.

Brand, Russell. [Uh oh...The Wuhan Lab Leak Debate just got even messier...](#). *YouTube*, 9/23/2021.

Lerner, Sharon & Hibbett, Maia. [Leaked Grant Proposal Details High-Risk Coronavirus Research](#). *The Intercept*, 9/23/2021.

Markson, Sharri. [What Really Happened in Wuhan: A virus like no other](#). *Harper-Collins*, 9/27/2021.

Perween, Reshma et al. [The SARS CoV-2 spike directed non-neutralizing polyclonal antibodies cross-react with HIV-1 gp41](#). *International Immunopharmacology*, 9/28/2021.

Xiaotong Lu et al. [Global Diversification and Distribution of Coronaviruses With Furin Cleavage Sites](#). *Frontiers in Microbiology*, 10/1/2021.

Wain-Hobson, Simon. [Simon Wain-Hobson's analysis of the DEFUSE proposal](#). *DRASTIC*, 10/4/2021.

Wain-Hobson, Simon. [Simon Wain-Hobson's annotated version of the DEFUSE proposal](#). *DRASTIC*, 10/4/2021.

Musunuri, Sriharshita et al. [Rapid Proliferation of Pandemic Research: Implications for Dual-Use Risks](#). *mBio*, 10/19/2021.

Lerner, Sharon & Hibbett, Maia. [EcoHealth Alliance Conducted Risky Experiments on MERS Virus in China](#). *The Intercept*, 10/21/2021.

Daszak, Peter. [EcoHealth letter of clarification to Tabak & the NIH](#). *EcoHealth Alliance*, 10/26/2021.

Energy & Commerce Com.. [2021.10.27-Letter-to-NIH - House Energy & Commerce Committee](#). *US House of Representatives*, 10/27/2021.

Eban, Katherine. [In Major Shift, NIH Admits Funding Risky Virus Research in Wuhan](#). *Vanity Fair*, 10/27/2021.

Massey, Steven. [SARS-CoV-2's closest relative, RaTG13, was generated from a bat transcriptome not a fecal swab: implications for the origin of COVID-19](#). *Research Gate*, 11/1/2021.

Hvistendahl, Mara & Lerner, Sharon. [NIH Officials Worked With EcoHealth Alliance to Evade Restrictions on Coronavirus Experiments](#). *The Intercept*, 11/3/2021.

Zhan, Shing Hei & Chan, Alina. [Emergence of the Spike Furin Cleavage Site in SARS-CoV-2](#). *Molecular Biology & Evolution*, 11/12/2021.

Gentile, Francesco et al. [Automated discovery of noncovalent inhibitors of SARS-CoV-2 main protease by consensus Deep Docking of 40 billion small molecules](#). *Chemical Science*, 11/17/2021.

Derking, Ronald & Sanders, Rogier. [Structure-guided envelope trimer design in HIV-1 vaccine development: a narrative review](#). *Journal of the International AIDS Society*, 11/24/2021.

Massey, Steven. [Host Manipulation Mechanisms of SARS-CoV-2](#). *Acta Biotheoretica*, 12/13/2021.

Quay, Steven. [The seminal paper from the WIV claiming SARS-CoV-2 probably originated in bats appears to contain a contrived specimen...and the signature of laboratory-derived synthetic biology](#). *Zenodo*, 12/14/2021.

Menachery, Vineet et al. [QTQTN motif upstream of the furin-cleavage site plays key role in SARS-CoV-2 infection and pathogenesis](#). *bioRxiv*, 12/17/2021.

Kolls, Jay & Garry, Robert. [Role of the T cell vitamin D receptor in severe COVID-19](#). *Nature Immunology*, 12/20/2021.

Oldfield, Philip et al. [How Does SARS-CoV-2 Affect the Brain and Its Implications for the Vaccines Currently in Use](#). *Vaccines*, 12/21/2021.

Csabai, Istvan et al. [Unique SARS-CoV-2 variant found in public sequence data of Antarctic soil samples collected in 2018 & 2019](#). *Research Square*, 12/23/2021.

Syed, Ah Khan. [How to BLAST your way to the truth about the origins of COVID-19](#). *Substack*, 12/28/2021.

Rogan, Joe & Malone, Robert. [Joe Rogan Experience #1757 Transcript - Robert Malone](#). *The Joe Rogan Experience*, 12/31/2021.

Curelli, Francesca et al. [Discovery of Highly Potent Fusion Inhibitors with Potential Pan-CoV Activity That Effectively Inhibit Major COVID-19 VOCs in Pseudovirus-Based Assays](#). *Viruses*, 12/31/2021.

Yue, Zhang et al. [A second functional furin site in the SARS-CoV-2 spike protein](#). *Emerging Microbes & Infections*, 1/4/2022.

Murphy, Joseph. [USMC Inspector General's whistleblower report: SARS-CoV-2 Origins Investigation with US Government Program Undisclosed Document Analysis](#). *Project Veritas/DoD leak*, 1/10/2022.

House E&C Committee. [House Energy & Commerce Committee letter to NIH, January 2022](#). *US House of Representatives*, 1/12/2022.

Andre, Sonia et al. [T cell apoptosis characterizes severe Covid-19 disease](#). *Nature Cell Death & Cell Differentiation*, 1/22/2022.

Qing, Xiong et al. [Close Relatives of MERS-CoV in bats use ACE2 as their functional receptors \[NeoCoV\]](#). *bioRxiv*, 1/25/2022.

Brufsky, Adam et al. [MSH3 Homology and Potential Recombination Link to SARS-CoV-2 Furin Cleavage Site](#). *Frontiers in Virology*, 2/21/2022.

Ledford, Heidi. [Luc Montagnier \(1932–2022\) - Obituary](#). *Nature*, 3/4/2022.

Shi, Zheng-Li et al. [ACE2-independent infection of T lymphocytes by SARS-CoV-2](#). *Signal Transduction & Targeted Therapy*, 3/11/2022.

Mndal, Chandi et al. [Combinatorial influence of environmental temperature, obesity and cholesterol on SARS-CoV-2 infectivity](#). *Nature Scientific Reports*, 3/21/2022.

Puhl, Ana et al.. [The Need for Speed and Efficiency: A Brief Review of Small Molecule Antivirals for COVID-19](#). *Frontiers in Drug Discovery*, 3/30/2022.

Shi, Zheng-Li & Wolfe, Nathan et al. [The Animal Origin of Major Human Infectious Diseases: What Can Past Epidemics Teach Us About Preventing the Next Pandemic?](#). *Zoonoses*, 4/1/2022.

Cattaneo, Alberto Maria. [Reviewing findings on the polypeptide sequence of the SARS-CoV-2 protein to discuss the origins of the virus](#). *Future Virology*, 4/5/2022.

House E&C Committee. [House E&C Committee - 2nd letter to Lawrence Tabak, acting NIH director, concerning Daszak & EHA](#). *US House of Representatives*, 4/5/2022.

Kaiser, Jocelyn. [New generation of cancer-preventing vaccines could wipe out tumors before they form](#). *Science*, 4/7/2022.

Syed, Ah Khan. [Absolute proof: The Gp-120 sequences prove beyond all doubt that "COVID-19" was man-made](#). *Substack*, 4/10/2022.

Xia, Shuai et al. [Coronavirus Entry Inhibitors](#). *Advances in Experimental Medicine & Biology*, 4/11/2022.

Jiang, Shibo et al. [Peptide-Based HIV Entry Inhibitors](#). *Advances in Experimental Medicine & Biology*, 4/13/2022.

Seneff, Stephanie et al. [Innate immune suppression by SARS-CoV-2 mRNA vaccinations: The role of G-quadruplexes, exosomes, and MicroRNAs](#). *Food & Chemical Toxicology*, 4/15/2022.

Roncato, Rossana et al. [Lipid rafts as viral entry routes and immune platforms: A double-edged sword in SARS-CoV-2 infection?](#). *Biochimica et Biophysica Acta*, 6/1/2022.